

ABSTRACT

The present invention relates to a process for identifying and enriching cell-specific target structures, in particular for the identification of cell-specific protein combination patterns on the surface of cells and for enriching such cells, wherein the process comprises the following steps:

- (a) depositing a heterogeneous cell mixture on one or plural surfaces with predefined structures, causing cells with corresponding target structures to become bound to such surface(s);
- (b) removing any non-binding cells of said cell mixture from said surface(s);
- (c) identifying the cell-specific target structures responsible for the binding of the cells to said surface(s);
- (d) selecting and enriching cells with identical cell-specific target structures on said surface(s); and
- (e) biochemically characterizing the target structures selected in procedural step (d).